

FOLIO

Generous Transfer from Alberta Research Council

In a brief but happy ceremony on 11 August 1981, the Alberta Research Council formally transferred from its Computing Department to the University's Department of Electrical Engineering its long-serving Digital Equipment Corporation PDP-9 computer. Representing the ARC was H. Habgood (Dr. Habgood is Special Assistant to the ARC President with special responsibility for university liaison). The University was represented by the Chairman of Electrical Engineering, C.R. James. Other people attending the ceremony included a 1966 graduate of this University, G. Millard (the DEC representative to ARC and the University), and B. Stang, President of the University's Electrical Club.

The presence of Mr. Stang at the ceremony was particularly appropriate inasmuch as the PDP-9 will be installed on indefinite loan in the Undergraduate Projects Laboratory of Electrical Engineering. Here, members of the Electrical Club participate in extra-curricular activities and projects designed to assist industry and local community groups. The PDP-9 will greatly facilitate the Club's ability to engage in such projects.

The Alberta Research Council's PDP-9 was purchased in 1968 for about \$76,000 and began service on 20 July. The computer facility grew in succeeding years and, by 1975, reached its present configuration. At that time, the facility represented a total investment in the order of \$200,000.

For most of its years of service, the computer was managed by P. Redberger of the ARC. Mr. Redberger became, naturally enough, quite attached to the machine with the result that he planned his vacation to coincide with its dismantling. According to one ARC spokesman, Mr. Redberger did not wish to be overcome with nostalgia.

The PDP-9 is an interesting 18-bit machine designed and manufactured by the Digital Equipment Corporation especially for graphics applications. It was one of the last machines to make use of discrete transistors.

According to C.F. Richmond, Research Officer with the ARC Chemistry Department, the PDP-9's major technological advance over its predecessors was its core memory which used a "2½ D" driving/sense structure (three wires through each ferrite

core element rather than four). By this advantages were gained in cost, size, and speed. The machine was the first DEC equipment to use microprogrammed control store (i.e. 64 word, 36 bit, 212 nanosecond, read-only, transformer-coupled memory) for "horizontal microprogramming." This represented in its day a sophistication rarely matched by competitors and was an architectural feature used in many subsequent machines.

About 450 PDP-9s were manufactured before being made obsolete in 1973 by the introduction of the PDP-15. This latter machine utilized 7400 TTL integrated circuitry.

Replacing the PDP-9 in the Computing Department of the Alberta Research Council is a VAX-11/780. This machine will be fed and watered by a staff of eight people. □



H. Habgood, Alberta Research Council, and C.R. James, Electrical Engineering, view the PDP-9 generously loaned to the University by the ARC.

Patterson Named McCalla Research Professor

R.S. Patterson of the Department of Educational Foundations has been named the final recipient of the Arthur G. McCalla Research Professorships for 1981-82.

Dr. Patterson, who graduated from this University with baccalaureate and master's degrees in Education before taking a doctoral degree at Michigan State University in 1968, has been a full-time employee here since 1966. He was promoted to the rank of Professor in 1972.

The author of several books and articles, Dr. Patterson has consistently pursued his major academic interest, the history of education in Canada. In past years he has been awarded sizeable grants by a variety of agencies to continue these absorbing studies. Some five years ago, he received a grant from Alberta Advanced Education and Manpower, under the Innovative Projects Fund, to collect aural and visual material relating to the history of schooling

in Canada. As a result of this \$34,000 grant Dr. Patterson has put together a very comprehensive collection of historical observations, photographs, inspectors' reports and the like. It is his intention to use the material in preparing an illustrated history of schooling in western Canada.

Dr. Patterson has also been the recipient of funds from the Alma Mater Fund to research the history of normal schools in Alberta. Most recently, in January 1981, he was awarded a \$98,000 grant, again under the terms of the Innovative Projects Fund, to prepare and test the use of historical materials in teaching for the development of critical, analytical, and reasoning skills on the part of students who take courses in the history of western Canadian education.

With the release time gained as a McCalla Research Professor, Dr. Patterson hopes to be able to prepare a textbook and curriculum materials kits for teachers and students. He also hopes to write articles on the methodology and philosophy of history and a monograph on the history of progressive education in this country. □

FOLIO

*Volume Eighteen
Number Nine*

*All inquiries and correspondence should
be directed to:*

Folio
Office of Community Relations
423 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8
Telephone: (403) 432-2325
The Office of Community Relations
produces Folio on a weekly basis for
the staff and other interested persons

ISSN 0015-5764
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Renowned Biochemist J. H. Quastel to be Honored at McGill

The latest advances in the molecular aspects of neurochemistry will be discussed during a series of lectures at McGill University to be held on 15 and 16 September named after the eminent Canadian biochemist, and retired McGill professor, J.H. Quastel. The lectures, "Lipids and the Transmission of Biological Signals Through Membranes" and "Regulation of Catecholamine Metabolism," will be given by Nobel laureate Julius Axelrod of the Department of Health and Human Services at the National Institute of Mental Health in Bethesda, Maryland.

The lectures will be held Tuesday, 15 September, at

4:30 p.m., and Wednesday, 16 September, at 11:30 a.m., in the Palmer Howard Theatre of the McIntyre Medical Sciences Building. Both lectures will be followed by informal discussions involving all of the participants.

Now in his eighty-second year, Dr. Quastel has long been recognized for the influential role he played in the development of the basic ideas of biochemistry and neurochemistry. After retiring from McGill in 1968, he moved to the west coast, and currently holds an Honorary Chair of Neurosurgery at the University of British Columbia.

Many of his former students also hold senior positions at

university biochemistry departments and research facilities across North America. It was a gift from one of these students, Dr. Mohandas M. Kini, now of Boston, that enabled McGill to establish the annual Quastel lectures, to be called the J.H. Quastel Visiting Professorship in the Field of Molecular Biology of the Nervous System.

Further information concerning the honoring of Dr. Quastel may be gained by telephoning Rose M. Johnstone, Chairman, Department of Biochemistry, McGill University (514) 392-4248. □

Football Bears Prepare to Defend National Title

On Friday, 21 August at 4 p.m., The University of Alberta Golden Bears began the defence of their national title won last November in Toronto, when they defeated the University of Ottawa 40-21 in the 1980 College Bowl Game.

Friday saw seventy players come together for an organizational meeting and a light workout. On Saturday, 22 August, the Bears began their two-week long, two-a-day practices, one in the morning and one in the evening.

The Bears head into the 1981 season with thirty-five players returning from last year's championships squad. This nucleus of veterans should provide strength in all positions, especially to the receivers and defensive units. The thirty-five "rookies" attending camp will provide depth to the team.

The Bears' offensive attack will be directed by either third-year quarterback Jamie Crawford (6'5", 215 lbs) or Randy Stollery, an ex-Golden Bear and the leading passer in Canadian Junior

Football last year.

The Bears' ground game will miss Sean Kehoe, but seniors Rick Paulitsch (6'2", 215 lbs) and Frank Cunningham (6'0", 191 lbs) should be able to provide a strong attack. One position the bears will definitely be strong at is that of wide receiver. Peter Eshenko will be leading the Bears' corps of receivers. Eshenko was last year's College Bowl's "Offensive Player of the Game" and was the third leading receiver in the WIFL. Complementing Eshenko will be Dave Brown (6'1", 180 lbs) and Mike Wolfram (6'4", 191 lbs). Two rookie prospects that may help the Bears are wide receiver Troy Ciochetti (6'1", 170 lbs) and tight end Matt Dean (6'2", 205 lbs).

The offensive line of the Bears is anchored by WIFL all-star tackle Elwin Worobec (6'4", 250 lbs), all-star centre Percy Gendall (6'2", 205 lbs), and guard Ben Der (5'11", 190 lbs). These three linemen should provide good support for the Bears' quarterbacks.

Defensively the Bears are very strong. The defensive line is solid with Rollie Miles (5'10", 218 lbs) and Blake Dermott (6'3", 253 lbs) returning. Both John Urschel (6'2", 210 lbs) and Nereo Bolzon (6'1", 212 lbs) return to anchor the linebackers.

The defensive backfield is the strongest unit for the Bears. Returning for another football season is All-Canadian Gord Syme (6'2", 190 lbs). Supporting Syme in the contain unit will be senior Robin Lawrence (6'0", 170 lbs) and sophomore Glen Music (5'11", 175 lbs). These three players accounted for a total of 14 interceptions last year.

With so many players returning from last year's roster the 1981 WIFL season could be another winning year for the Bears. The Bears are strong in the positions of fullback, wide receiver and defensive halfback, but are still not proven strong at quarterback or in their kicking game. As Head Coach Jim Donlevy states: "To attempt any prediction of the final standings for the 1981 WIFL

season at this time is impossible. The WIFL is the most competitive and strongest conference in the CIAU. All five teams are strong and any one of the five could find themselves in this year's College Bowl."

The Bears open their 1981 season on Saturday, 5 September, with a game against the University of Ottawa Gee-Gees. The game is a rematch of last year's College Bowl and should provide an exciting start to the season.

This year, the Bears will play all their home games at Clarke

Stadium. The 1981 schedule follows:

Date	Opponent	Time
5 Sept	Ottawa (home)	7:30 p.m.
11 Sept	UBC (away)	
18 Sept	Sask (home)	2 p.m.
26 Sept	Manitoba (away)	
2 Oct	Calgary (home)	7:30 p.m.
17 Oct	UBC (home)	2 p.m.
24 Oct	Saskatchewan (away)	
31 Oct	Manitoba (home)	2 p.m.
6 Nov	Calgary (away)	□

This article was contributed by Steve Knowles, Sports Information Director.

Students' Union Art Gallery

The Students' Union Art Gallery—always the scene of interesting visual experiences—is gearing up for the Fall Season with an exciting series of exhibitions.

The Gallery opens on 2 September with "Body Parts . . .," drawings by Dennis Burton, Gary Olson, Joyce Hall, Ernest Lindner, Darci Schuler-Mallon, and Jim Westergard. The drawings in this exhibition all deal directly with the body, with each artist presenting a unique, personal perspective and focus.

The season continues with paintings by Calgary artist Ron Moppett and the free-standing, clay and wood constructions of Phyllis Green. In October, Cherie Moses's "Brides and Opening Ceremonies" a fabric, sculptural installation—is combined with Toronto artist Barbara Astman's "Red" series. Recent paintings by Wanda Condon and Jeffrey Spalding will then be featured in November. The Annual Christmas Craft Sale is back by popular demand from 1 to 4 December.

The Students' Union Art Gallery continues to offer a varied program of art and crafts classes with a 15 percent discount to University of Alberta students. Classes during the Fall term include: basic and intermediate pottery, basic and intermediate drawing and watercolor, print-making, painting, and basic visual art. Weekend workshops in

specialized areas are planned, including: Ceramics—Glaze Chemistry; Art Criticism for Art Instructors; Raku Firing; and Transferring and Printing Images.

In addition, a wide variety of fibre art classes is offered in the Textile Studio in the Hub Mall adjacent to the Yarn Shop. These include: weaving, spinning, quilting, needlepoint, knitting and basketry.

The successful noon hour poetry readings, now in their third season, will again be held in the Art Gallery and begin on 17 September with Patrick Lane, Poet-in-Residence, Department of English.

Art Gallery hours: Monday to Friday, 11 a.m. to 5 p.m., Saturday and Sunday, 1 to 5 p.m.

For further details of these and future events, call 432-4547. □

This Week's Quote

"The provinces of Alberta and Saskatchewan are now more wealthy than the Dominion Government."

Source: Sir Wilfred Laurier in a 1907 letter to Alberta premier A.C. Rutherford. In *A History of The University of Alberta: 1908-1969* by Walter H. Johns (Edmonton: The University of Alberta Press, 1981, p. 7).

service information

All information to be contained in the 10 September issue of Folio must arrive in the Office of Community Relations, 423 Athabasca Hall, no later than 9 a.m. on Wednesday, 1 September 1981.

Coming Events

Rutherford House,

11153 Saskatchewan Drive

The restored home of Alberta's first premier, A.C. Rutherford, is located on the University campus. Staff in period costumes show visitors through the house. Until Labor Day, open daily 10 a.m. to 8 p.m. Group tours may be arranged by calling 427-5708 at least one week in advance. Free.

Ukrainian Cultural Heritage Village

The Village is open to the public 10 a.m. to 6 p.m. daily until 31 August. It is located 45 km. east of Edmonton on Highway 16, and admission is free.

University Special Collections

Until 4 September. "William Cowper, English Poet—250th Anniversary."

B37 Cameron Library: Opening hours 8:30 a.m. to 4:30 p.m. Monday to Friday.

Until 20 September. "Near Terrestrial Paradise: Early California Travels."

Alberta Natural Resources Science Centre

Until Labor Day. The Centre consists of six permanent pavilions with displays that describe and interpret how Alberta's natural resources are put to use. Opening hours are Saturdays and Sundays from 11 a.m. to 5 p.m. School tours are available Monday to Friday. Admission and parking are free. The Centre is located east of Edmonton at the new Strathcona Science Park. For further information and bookings phone 427-9490.

Music

Department of Music

Faculty Recital

11 September, 8 p.m. Gerhard Krapf, organist, in a program of his own music: "Fantasia and Fugue on a

Theme of Frescobaldi," Partita on "Praise to the Lord, the Almighty," "Five Biblical Contemplations," "Fantasy on Psalm CL," "Psalm Suite from Little Organ Psalter," "Three Pieces for Manuals only," and "Sonata II, for Thanksgiving."

Non-Credit Courses

Computing Services

Client Training Sessions

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses. For further information, please telephone Information Services at 432-2463 or come to 319 General Services Building.

Introduction to Computing at the U of A

Course number: 454. *Date:* 4 September. *Time:* 11 a.m. to 1 p.m. *Fee:* \$5.

Prerequisites: No previous computing experience required.

MTS Overview

Course number: 478. *Date:* 8, 10 September. *Time:* 11 a.m. to 1 p.m. *Fee:* \$10. *Prerequisites:* MTS and Editor Fundamentals.

Introduction to Programming

Course number: 511. *Date:* 8, 10, 15, 17 September. *Time:* 10 a.m. to noon. *Fee:* \$15. *Prerequisites:* MTS and Editor Fundamentals or equivalent knowledge of MTS.

Introduction to Text Formatting

Course number: 486. *Date:* 4, 9, 11, 14, 16, 18 September. *Time:* noon to 2 p.m. *Fee:* \$15. *Prerequisites:* MTS and Editor Fundamentals and MTS Overview course and a good working knowledge of the File Editor.

Faculty of Extension

Managing Investments

Course number: 5272. *Date:* 8 September to 8 December. *Time:* 7:30 to 9:30 p.m. *Fee:* \$110. *Telephone:* 432-5066 or 432-5067.

English as a Second Language

Date: 21 September to 2 December. *Time:* 6 to 8 p.m., meet twice a week. *Fee:* \$65. *Telephone:* 432-3497, 432-3036, or 432-3116.

Management of Personal

Finances: An Investment

Strategies Approach

Course number: 5273. *Date:* 14 September to 7 December. *Fee:* \$125. *Telephone:* 432-5066 or 432-5067.

Sales Communication

Date: 10 and 11 September. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$150. *Telephone:* 432-5066 or 432-5067.

Marketing for Non-Marketing Managers

Date: 15 September. *Time:* 9 a.m. to

4:30 p.m. *Fee:* \$100. *Telephone:* 432-5066 or 432-5067.

The Art of Negotiating

... with anyone

Date: 16 and 17 September. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$195. *Telephone:* 432-5066 or 432-5067.

Critical Thinking Workshop

Date: 21 and 22 September. *Time:* 9 a.m. to 5 p.m. *Fee:* \$150. *Telephone:* 432-5066 or 432-5067.

Starting Your Business:

The Road to Independence

Date: 14 September to 23 November. *Time:* 7 to 10 p.m. *Fee:* \$155. *Telephone:* 432-5066 or 432-5067.

PLATO Learning Centre

Introduction to PLATO

Course Number: 6606. *Date:* 28, 30 September and 2, 5, 7, 9, 14, and 16 October. *Time:* 5 to 7 p.m. *Fee:* \$110. *Prerequisites:* None. *Place:* 110 Corbett Hall (PLATO Learning Centre).

Introduction to PLATO

Course number: 6607. *Date:* 29 September, 1, 6, 8, 13, 15, 20, 22 October. *Time:* 5 to 7 p.m. *Fee:* \$110. *Prerequisites:* None. *Place:* 110 Corbett Hall (PLC)

Introduction to TUTOR

Course Number: 6608. *Date:* 1, 8, 15, 22, and 29 October; 5, 12, 19, and 26 November and 3 December. *Time:* 7 to 9 p.m. *Fee:* \$145. *Prerequisites:* Introduction to PLATO. *Place:* 110 Corbett Hall (PLC).

Intermediate TUTOR

Course Number: 6609. *Date:* 6, 13, 15, 22, and 29 October; 3, 10, 17, and 24 November; 1 and 8 December. *Time:* 7 to 9 p.m. *Fee:* \$130. *Prerequisites:* Introduction to TUTOR. *Place:* 110 Corbett Hall (PLC).

Notices

Lynn Morgan to Retire

Lynn Morgan, Associate Registrar, will retire this fall from The University of Alberta. Lynn, associated with the Registrar's Office for twenty-five years, will be honored at an informal reception in the Upper Lounge of the Faculty Club on Monday, 14 September 1981, from 5 to 6:30 p.m., with an informal dinner to follow in the Papaschase Room for those who wish to stay on.

Staff, friends and acquaintances of Lynn are cordially invited to join Lynn on this occasion to thank him for his contributions to the University and to wish him well on his retirement.

Anyone wishing to make a donation towards a retirement gift may do so by sending a cheque payable to the Lynn Morgan Retirement Fund to the Office of the Registrar, 201 Administration Building, attention Joan

Macdonald. If staying for dinner, please include the dinner cost of \$12.85 per person.

For further information please contact the Office of the Registrar at 432-3723.

Coping with Stress

Two two-day weekend workshops on this topic will be held on 26 and 27 September and 6 and 7 November at Lister Hall. Among the problems to be addressed, from 8:30 a.m. to 4:30 p.m., are "What Stress Is," "How Stress Affects Health and Mental Wellbeing," and "What Can Be Done About Stress." The workshops are to be conducted by Penny Hayduk to fulfill part of the requirements for a master's degree in Educational Psychology. There will be a nominal fee of \$10. Please telephone 433-5545 for more information.

Alex Markle to Retire

Alex Markle, Executive Director of the Alumni Association, will retire this fall from The University of Alberta. Alex, associated with the University for over thirty years, will be honored at an informal reception in the Papaschase Room of the Faculty Club on Tuesday, 6 October 1981 from 4 to 7 p.m.

Staff, friends and acquaintances of Alex are cordially invited to join Alex on this occasion to thank him for his contributions to the University and to wish him well on his retirement.

Anyone wishing to make a donation towards a retirement gift may do so by sending a cheque payable to the Alex Markle Retirement Fund and addressed to the Office of Community Relations, 423 Athabasca Hall.

For information and RSVP your attendance, please contact the Office of Community Relations at 432-2325.

Surplus Equipment

The equipment appearing in this column is available only to University Departments with University Administered Funds. For further information about the purchase of equipment or the disposal of any of your department's surplus equipment, contact Bonnie O'Dwyer or Roy Bennett, telephone 432-3208.

Baker interference microscope on a binocular A.V. Spencer body with analyzer and separate light source. For further information, please contact D. Wighton at 432-3606.

Positions Vacant

Director of Community Relations

The Director of Community Relations is responsible for public relations and the general publications of the University and reports to the Vice-President (Finance and Administration). He or

she works with various University constituencies to develop or improve communications both within the University and between the University and outside groups and individuals.

The position requires a bachelor's degree; knowledge and understanding of University operations; familiarity with current print and electronic technology; good speaking ability; and ability to work with the media. Graduate study plus academic or administrative experience in a University is preferred.

This is an Administrative and Professional Officer position with salary commensurate with qualifications and experience. The University is an equal opportunity employer, but in accordance with Canadian immigration regulations, Canadian citizens and permanent residents will be given preference. Closing date is 15 November 1981.

Applications with full curriculum vitae and names of three references should be sent to: L.C. Leitch, Vice-President (Finance and Administration), 3-12 University Hall, The University of Alberta, Edmonton, Alberta T6G 2J9.

Non-Academic Positions

Part-Time Temporary

Clerical Staff

The University of Alberta Temporary Staff Services requires experienced competent typists, stenographers, and clerical workers for temporary assignments. These opportunities offer flexible hours, variety, competitive pay rates, and would appeal to mature, enthusiastic persons who are seeking less than full-time employment.

You may call 432-5201 for an application and interview arrangements, or apply in person. Qualified applicants will be interviewed immediately whenever possible.

Personnel Services and Staff Relations, 3rd Floor, Students' Union Building, 114 Street and 89 Avenue, T6G 2J7.

The University of Alberta is an equal opportunity employer.

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201.

Endowment Fund for the Future: Deadlines for Submissions

All Faculties:

Distinguished Visitors Fund—15 September 1981.

Submissions to:

Dr. R.G. Baldwin, Vice-President (Academic)
3-5 University Hall

All Faculties:

University/Community Special Projects—
15 September 1981.

Submissions to:

Dr. A.E. Zelmer, Associate Vice-President (Academic)
3-4 University Hall

**Home Economics, Faculté St.-Jean,*

Nursing, Law, Library Science, Extension:

Support for Advancement of Scholarship—
11 September 1981.

Submission to:

Dr. A.E. Zelmer, Associate Vice-President (Academic)
3-4 University Hall

* other Faculties will have their own deadlines and procedures.
For information contact the respective Dean's Office.

Please do not contact the department directly. Positions available as of 21 August 1981.

Duplicating Equipment Operator (\$903.29-\$1,080.97)—Business Administration and Commerce (Term)
 Cashier (\$903.29-\$1,080.97)—Bookstore (3 positions)
 Sales Clerk (\$903.29-\$1,080.97)—Bookstore
 Clerk (\$903.29-\$1,080.97)—Office of the Comptroller
 Library Clerk I (\$903.29-\$1,080.97)—Extension Library (2 positions)
 Public Relations/Publications Clerk I (\$935.58-\$1,117.33)—Community Relations
 Financial Records Clerk (\$970.59-\$1,161.75)—Office of the Comptroller; Bookstore
 Senior Clerk (\$970.59-\$1,161.75)—Extension
 Clerk Typist II (\$970.59-\$1,161.75)—Dean of Arts; Purchasing; Pension and Benefits; Administration; Romance Languages; Agriculture and Forestry
 Clerk Typist II (\$388.22-\$571.76)—Home Economics (Trust, Part-time Recurring Term)
 Clerk Typist II (\$970.59-\$1,161.75)—Extension (Recurring Term)
 Clerk Typist II (\$485.29-\$580.87)—Anthropology (Part-time)
 Clerk Typist II (\$534.62-\$663.85)—Continuing Medical Education
 Clerk Steno II (\$970.59-\$1,161.75)—Surgery; Extension; Secondary Education; Technical Services; Mechanical Engineering
 Clerk Steno II (\$582.36-\$697.05)—Extension (Part-time, Recurring Term)
 Clerk Steno II (\$970.59-\$1,161.75)—Economics (Recurring Term)
 Dental Assistant (\$970.59-\$1,161.75)—Faculty of Dentistry (Term—6 positions)
 Library Clerk III (\$1,006.94-\$1,204.82)—Rural Economy
 Dental Records Clerk (\$1,006.94-\$1,204.82)—Dean of Dentistry (2 positions)
 Data Entry Operator (\$1,039.24-\$1,250.59)—Bookstore
 Student Records Processing Clerk (\$1,080.97-\$1,304.43)—Faculty of Graduate Studies and Research
 Clerk Typist III (\$1,080.97-\$1,304.43)—University Press; New Canadian Encyclopedia (2 positions); Student Work Experience Program (Term); Pathology; Computing Science; Recreational Administration; Boreal Institute; Extension; Faculté Saint-Jean; Dentistry; Student Counselling
 Clerk Typist III (\$617.48-\$745.32)—English (Part-time, Term)
 Clerk Steno III (\$540.49-\$652.22)—Biochemistry (Part-time, Trust)
 Clerk Steno III (\$617.68-\$745.36)—Office of the Dean of Medicine (Part-time, Trust)
 Clerk Steno III (\$1,080.97-\$1,304.43)—Mineral Engineering (2 positions)
 Public Relations/Publications Clerk II (\$1,080.97-\$1,304.43)—Community Relations
 Admissions Records Clerk/Assistant/

Coordinator (\$1,080.97-\$1,358.28)—Office of the Registrar
 Assistant to the Buyer (\$688.48-\$843.08)—Purchasing (Part-time)
 Library Assistant II (\$1,204.82-\$1,475.40)—Extension Library
 Accounts Clerk (\$1,204.82-\$1,475.40)—Botany
 Administrative Clerk (\$1,204.82-\$1,475.40)—Student Affairs; Payroll; Pensions and Benefits Administration; Faculty of Extension
 Secretary (\$1,204.82-\$1,475.40)—Computing Services
 Publications Assistant II (\$1,358.28-\$1,475.40)—Computing Services
 Public Relations/Publications Assistant II (\$1,358.28-\$1,475.40)—Community Relations
 Audio Visual Assistant (\$503.47-\$602.41)—Geography (Part-time)
 Building Services Worker II (\$511.55-\$617.30)—Physical Plant (Part-time)
 Parking Attendant (\$970.59-\$1,080.97)—Parking Services
 Laboratory Assistant II (\$970.59-\$1,080.97)—Provincial Laboratory (2 positions)
 Storeman I/II (\$1,006.94-\$1,417.51)—Chemistry
 Programmer/Analyst II (\$1,084.35-\$1,352.90)—Psychology (Part-time)
 Technical Assistant (\$1,080.97-\$1,304.43)—Pharmacology
 Building Services Worker II (\$1,080.97-\$1,304.43)—Building Services (Physical Plant)
 Garage Helper (\$1,080.97-\$1,304.43)—Vehicle Pool
 Computer Assistant II (\$1,117.33-\$1,358.28)—Computing Services (3 positions)
 Storeman II (\$1,161.75-\$1,417.28)—Registrar's Office
 Pool Operations Attendant (\$1,204.82-\$1,475.40)—Physical Circulation
 Technician I (\$1,204.82-\$1,475.40)—Mechanical Engineering (Term); Food Science (Trust-Term); Home Economics; Chemistry; Zoology (Physiology)
 Animal Technician I (\$1,204.82-\$1,475.40)—Bioscience Animal Science
 Farm Technician (Dairy) (\$1,204.82-\$1,475.40)—Animal Science
 Youth Program Assistant (\$1,204.82-\$1,475.40)—Extension—Legal Resource Centre (Trust)
 Building Services Worker III (\$1,204.82-\$1,475.40)—Physical Plant (Building Services)
 Civil Engineering Technician II/III (\$1,204.82-\$1,475.40)—Civil Engineering (Trust)
 Technician I/II / Technologist I/II (\$1,204.82-\$1,986.93)—Medical Bacteriology (Trust)
 Maintenance Worker I (\$1,304.43-\$1,604.63)—Physical Plant (Grounds) (2 positions)
 Security Officer I (\$1,358.28-\$1,673.30)—Campus Security
 Biochemistry Technician II (\$1,358.28-\$1,673.30)—Biochemistry
 Technician II (\$1,358.28-\$1,673.30)—S.M.R.I.; Mineral Engineering
 Technologist I (\$1,417.51-\$1,747.33)—Medicine (Transplant Immunology)

(Trust)
 Biochemistry Technologist I (\$1,417.51-\$1,747.33)—Biochemistry (Trust)
 Chemical Technologist I (\$1,417.51-\$1,747.33)—Home Economics
 Laboratory Technologist I (\$1,417.51-\$1,747.33)—Provincial Laboratory (4 positions)
 Technologist I (\$1,417.51-\$1,747.33)—Botany; Medicine (Transplant Immunology) (Trust)
 Biology Technologist I (\$1,417.51-\$1,747.33)—Genetics (Trust)
 Draftsman II (\$1,417.51-\$1,747.33)—Design and Construction
 Biochemistry Technologist I/II (\$1,417.51-\$1,986.93)—McEachern Laboratory (Trust)
 Dental Hygienist (\$1,475.40-\$1,822.73)—University Health Service (Term)
 Electronics Technician II (\$1,475.40-\$1,822.73)—Chemistry
 Art Technician Demonstrator I (Intaglio) (\$1,475.40-\$1,822.73)—Art and Design
 Electronics Technician II/III (\$1,475.40-\$1,822.73)—Physics
 Engineering Technologist II (\$1,475.40-\$1,822.73)—Physical Plant (Energy Management)
 Administrative Assistant (Exhibition Designer) (\$1,535.68-\$1,904.82)—University Collections
 Maintenance Worker II (\$1,538.68-\$1,904.82)—Athletic Services; Physical Plant (Electrical Distribution)
 Technician III (Histology) (\$1,538.68-\$1,904.82)—Dean of Dentistry (Trust)
 Applications Analyst (\$1,538.68-\$1,904.82)—Office of the Registrar
 Office Equipment Repair Technician III (\$1,538.68-\$1,986.93)—Office Equipment Repair
 Technician III/Technologist III (\$1,538.68-\$2,264.26)—Geology (Trust)
 Technologist II (\$1,604.63-\$1,986.93)—Soil Science
 Engineering Technologist III (\$1,673.30-\$2,077.14)—Design and Construction; Operations and Energy Management
 Machinist Technician III (\$1,822.73-\$2,264.26)—Technical Services, Machine Shop (2 positions)
 Interior Designer (\$1,822.73-\$2,264.26)—Design and Construction
 Programmer/Analyst II/III (\$1,822.72-\$2,705.81)—Computing Services
 Engineering Technologist IV (\$1,904.82-\$2,367.91)—Physical Plant (Energy Management)
 Horticulturist (\$1,904.82-\$2,264.26)—Plant Science
 Programmer Analyst III (\$2,168.70-\$2,705.81)—Physical Plant; Computing Services
 Programmer/Analyst III (Training Coordinator) (\$2,168.70-\$2,705.81)—Computing Services (3 positions)
 Specialist Technician (\$2,168.70-\$2,705.81)—Physics
 Programmer/Analyst IV (\$2,588.69-\$3,242.93)—Computer Engineering; Office of Administrative Systems
 Controlsfitter (\$2,518.53/month)—Physical Plant (Maintenance)
 Carpenter (\$2,421.47/month)—Physical Plant (Maintenance)
 Plumber (\$2,518.53/month)—Physical Plant

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library—Room 512 should be consulted for further information as to availability and position requirements.

Library Clerk II (\$935.58-\$1,117.33)—Circulation
 Library Clerk III (\$1,006.94-\$1,475.40)—Acquisitions
 Duplicating Operator II (\$1,006.94-\$1,475.40)—Acquisitions
 Library Clerk II (\$1,006.94-\$1,475.40)—Acquisitions
 Library Assistant II (\$1,204.82-\$1,475.40)—Education; Cataloguing; Circulation
 Library Assistant I (\$1,080.97-\$1,304.43)—Education (3 positions); Acquisitions; Health Sciences; Cataloguing
 Library Assistant III (\$1,358.28-\$1,673.30)—Cataloguing (2 positions)
 Administrative Clerk (\$1,204.82-\$1,475.40)—Administration Services

Advertisements

Advertisements to be placed in the 10 September issue of Folio, must reach the Editor by 3 p.m. on Wednesday, 1 September, which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an alteration is made. Advertisements cannot be accepted over the telephone.

Accommodations available

For sale—By owner, luxury highrise condominium. Garneau area. Two bedrooms and bath. Southern exposure. Evenings: 433-3901.
 For sale—Executive four bedroom quality home. Whitemud Ravine (Aspen Gardens). Fully developed. Patio doors off family room. Brick wall fireplace. Lot 80 x 150'. No agents. 434-7578.
 For sale—By owner. Woodvale. 1,778 sq. ft. four-bedroom Costain home. \$93,000 blended at 11% until 1985. Fireplace, garage. \$139,500 462-9288 after 6 p.m.
 For sale—Owner renovating. 10947 70 Ave. About \$94,000. Good finance. Paul 436-9959, 388-3066. Early possession.
 For sale—New custom built, passive solar home. Unique open design. Indoor trees, sauna, Roman bath, terraced patios, extremely private. Low maintenance design in and outside. 435-7007 agent.
 For sale—Glenora two-bedroom bungalow. Hardwood floors, developed basement. Resi Richter 483-9432, 455-4135, Weber.
 For sale—Windsor Park three-bedroom bungalow. Developed basement, garage. Vendor will carry. Resi Richter 483-9432, 455-4135, Weber.

For sale—Royal Gardens. Immediate possession. Three bedrooms, den, rumpus room, two fireplaces, double garage. Resi Richter 483-9432, 455-4135, Weber.

For sale—Valleyview architect designed home. Five bedrooms, formal dining room, two fireplaces, three baths, double garage. Resi Richter 483-9432, 455-4135, Weber.

For sale—Mill Creek. Substantially renovated two-storey. Features parquette flooring, solarium, and greenhouse. Cedar exterior. Good financing at 10¾%. Priced at \$127,900. Audi Lew 432-7515, ABC Realty.

For sale—Executive townhouse. West end. Deluxe. 435-0250. No agents.

For sale—Petrolia. 1,200 square foot bungalow. Redecorated. 435-0250. No agents.

For rent—1 October-1 September 1982. Charming furnished bungalow, Belgravia, fireplace, on large lot. Close to schools and parks. 436-2718.

For sale—Immaculate bungalow, Royal Gardens. Three bedrooms upstairs, two down. Beautiful yard. Close to all schools, shopping centres, bike route. Twelve minutes to University. Reduced by owner. \$116,900. 438-4548.

For rent—Meadowlark. Three bedroom bungalow. Garage, three appliances, partially finished basement. Ian, 487-0657; Rod, 433-9940.

For sale—By owner. University area, four bedroom semi-bungalow. Carpeted, basement developed, 10% mortgage, double garage. 435-2992.

For rent—1,800 square foot, four bedroom split level, heated double garage. Available 15 September 1981. \$1,100/month. Damage deposit \$750. 16602 97 Avenue. 484-2575 after 6 p.m.

For sale—Only unit available in Hearthstone complex. Features include: three bedrooms, fireplace, all kitchen appliances, separate patio—western exposure. Spencer Real Estate Ltd., Laura Crawford, 436-5250, 487-0557.

For sale—Saltspring Island, B.C. 1.2 acres, 300 feet lowbank waterfront, view Ganges Harbour, landscaped, garden, fruit trees. Attractively modern home, 1,200 square feet, two bedrooms, fireplace, basement. \$395,000. 1-604-537-2633.

For rent—Must rent my house to go on sabbatical. Two storey, three bedrooms, five appliances, furnished. \$750/month. 1 December 1981-31 July 1982. 432-4191, 468-6089.

For sale—By owner. Lendrum. Convenient to University. Three bedroom bungalow with partially developed basement. 2½ baths and attached garage. \$107,500. Phone 434-2198.

For sale—Belgravia, 1,652 square foot semi-bungalow. Beautiful upgraded home on quiet street. Assumable mortgage at 10¼% until June 1983. Call: Pat Tietzen 437-7480 or 434-4825 (A.E. LePage).

For sale—Claridge House Condominium.

Two bedrooms, two baths, private balcony, magnificent view—one block from campus and five minutes to downtown. Call Pat Tietzen (A.E. LePage) 437-7480 or 434-4825.

For sale—Garneau. Colonial two-storey with custom designed kitchen. Fully carpeted, patio doors to deck, and a "something special" bathroom. Asking \$149,900. Patricia Tietzen (A.E. LePage) 437-7480 or 434-4825.

For sale—House. 2,000 square feet, with two furnished basement suites. No agents, 433-7841. 10655 84 Avenue. Beautiful location. Has skylights, well treed, and fenced.

For sale—Windsor Park. Two storey on Saskatchewan Drive, river valley view. \$98,000 mortgage at 12¾%. Now listed at \$325,000. For more information call Eleanor Duncan, Potter Realty, 434-7368, 436-3050.

For sale—Mill Creek. Carefully restored three bedroom, two storey. Hardwood floors, open fireplace, main floor den, patio doors, modern kitchen, beautiful garden. \$163,900. Eleanor Duncan, Potter Realty, 434-7368, 436-3050.

For sale—Saskatchewan Drive, Belgravia, 1,880 square foot custom bungalow. Three baths, two fireplaces, beautifully developed basement. Vendor will consider mortgage buy-down. Phone Reina Proudfoot, Royal Trust, 435-4869, 436-2556.

For sale—Executive 2,353 square foot, four bedroom house. Vacuum system, intercom, double attached garage, three bathrooms, extras. \$100,000 at 13% average. \$168,900. 434-6014.

Automobiles and others

For sale—Hunter's 4 x 4 Dodge van. Fully equipped. Call 487-9283.

Goods for sale

Antiques; furniture, porcelain, glass, jewellery, silver, collectibles. Appraisals executed for insurance and identification. 12-5 p.m. Mary Goulden Antiques, 10437 142 St. 453-2008, res. 452-8549.

Teak and leather chair with ottoman for sale. \$700. 439-2948.

Services

Donnic Typing Services Ltd. Specializing in word processing. 301A 10454 Whyte Avenue. 432-1419.

Kozak Business Services: Complete typing service available. Student discount. #305, 9924 106 Street. 423-3068, 478-1885.

Singing teacher, Eileen Turner. 439-4661. Typing on word processor. Call Darlene 452-1074.

Piano, theory lessons. Robert Gariepy. 433-7238.

General renovations: Garages, additions, carpentry, plumbing, painting, well-paper hanging, roofing. Free estimates. 453-1059.

Medical Research Technologist required for cancer research. Position available through grant for two years, beginning 1 September 1981. Annual salary in the \$19,000 range. BSc and interest

in research preferred. Contact Blood Transfusion Service at 420-0792.

Experienced editor/proofreader. Call evenings 458-8649.

Office space—Large, small. 104 Street-82 Avenue. Upstairs. 432-1280.

English riding lessons. Beginner, intermediate, junior. Call 475-0006, 471-6135.

Church organist required. Garneau United Church, 84 Avenue-112 Street. 439-2501, 432-4921.

Piano lessons for beginner and intermediate levels. K. Crowhurst,

433-7270.

YMCA Day Care opens 1 October.

Quality care for 2½ to 6 year olds.

Located near Groat Road, 10950 127

Street. Register now. For information

call Kathie West, YMCA, 455-2139.

Babysitter required for three-month-old boy, starting in September, weekdays from 8:30 a.m. to 5 p.m. Prefer mother with other children in Garneau district. Phone 433-2702.

Salon de Conversation Française.

French classes, all levels. Aspen.

435-4467.

GARNEAU MEALS

25% Sold

*Quarry Tile entries
Luxury appliances
Skylights
Vaulted ceilings*

Prices from \$125,000

*Solid oak cupboards
and vanities
Bay windows
Private yards or
balconies
Brick fireplaces*

Information Centre

8327 112 Street
433-1411

2-8 p.m. Monday-Thursday
1-5 p.m. Saturday-Sunday